

(PCT Rule 61.2)

To:

Commissioner
US Department of Commerce
United States Patent and Trademark
Office, PCT
2011 South Clark Place Room
CP2/5C24
Arlington, VA 22202
ETATS-UNIS D'AMERIQUE
in its capacity as elected Office

Date of mailing (day/month/year) 28 February 2001 (28.02.01)	ETATS-UNIS D'AMERIQUE in its capacity as elected Office
International application No. PCT/US00/19728	Applicant's or agent's file reference 55178-012
International filing date (day/month/year) 20 July 2000 (20.07.00)	Priority date (day/month/year) 20 July 1999 (20.07.99)
Applicant HOHENSTEIN, William, H. et al	

- ☒ in the demand filed with the International Preliminary Examining Authority on:
28 December 2000 (28.12.00)

- ☐ in a notice effecting later election filed with the International Bureau on:

2. The election ☒ was
☐ was not

made before the expiration of 19 months from the priority date or, where Rule 32 applies, within the time limit under Rule 32.2(b).

<p>The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland</p> <p>Facsimile No.: (41-22) 740.14.35</p>	<p>Authorized officer</p> <p>R. E. Stoffel</p> <p>Telephone No.: (41-22) 338.83.38</p>
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WHAT IS CLAIMED IS:

1. A timepiece having one or more concentric rotating bands indicating time increments.
2. The timepiece of claim 1 in which the one or more rotating bands are viewable from both the side and from the top for determining time.
3. The timepiece of claim 1 in which the rotating bands are conical in shape.
4. The timepiece of claim 1 in which the rotating bands are cylindrical in shape.
5. The timepiece of claim 1 in which the rotating bands rotate about a bezel.
6. The timepiece of claim 5 in which the bezel is fixed and the bezel serves as a mounting platform for an object.
7. The timepiece of claim 5 in which the bezel rotates and the bezel serves as a mounting platform for an object.
8. A timepiece having a visible surface and a mounting mechanism on said surface for removably attaching an object.
9. The timepiece of claim 8 in which said mounting mechanism comprises a stud.
10. The timepiece of claim 8 in which said stud is configured to engage a wishbone shaped spring.
11. The timepiece of claim 8 in which said stud comprises a conical portion, a cylindrical portion and a square portion.
12. For use with an object to be mounted on a timepiece, a spring mechanism attached to said object and configured to removably connect to a mounting mechanism attached to said timepiece.
13. The spring mechanism of claim 12 attached to said object with a screw.

*Replaced by
Article 34*

14. The spring mechanism of claim 12 in which the spring mechanism comprises an elongated piece of spring steel having a slot running for a portion of its length, the slot forming substantially parallel legs connected at one end and open at the other end.

15. The spring mechanism of claim 14 in which the slot has a hole at a location along its length.

16. The spring mechanism of claim 15 in which said hole has a diameter smaller than a diameter of a mounting mechanism attached to said timepiece to facilitate easy attachment of the object to said mounting mechanism.

17. An object to be mounted on a timepiece, comprising an attachment mechanism configured to removably connected to a mounting mechanism attached to said timepiece.

18. A method of manufacturing a timepiece, comprising the steps of:

- a. providing a timepiece having a mounting mechanism for a removable object; and
- b. providing at least one object having an attachment mechanism for attaching said object to said timepiece.

19. A method of assembling a timepiece, comprising the steps of:

- a. providing a timepiece having a mounting mechanism for a removable object; and
- b. mounting at least one object having an attachment mechanism for attaching said object to said mounting mechanism.

From the INTERNATIONAL SEARCHING AUTHORITY

PCT

To:

McDermott, Will & Emery
Attn. STEWART, David L.
600 13th Street, N.W.
Washington DC 20005-3096
UNITED STATES OF AMERICA

NOTIFICATION OF TRANSMITTAL OF
THE INTERNATIONAL SEARCH REPORT
OR THE DECLARATION

RECEIVED

(PCT Rule 44.1)

FEB 26 2001

McDermott, Will & Emery
(day/month/year) 16/02/2001

Applicant's or agent's file reference

55178-012

FOR FURTHER ACTION

See paragraphs 1 and 4 below

International application No.

PCT/US 00/19728

International filing date

(day/month/year)

20/07/2000

Applicant

ZADORA TIMEPIECES, LLC et al.

1. ☒ The applicant is hereby notified that the International Search Report has been established and is transmitted herewith.

Filing of amendments and statement under Article 19:

The applicant is entitled, if he so wishes, to amend the claims of the International Application (see Rule 46):

When? The time limit for filing such amendments is normally 2 months from the date of transmittal of the International Search Report; however, for more details, see the notes on the accompanying sheet.

Where? Directly to the International Bureau of WIPO
34, chemin des Colombettes
1211 Geneva 20, Switzerland
Facsimile No.: (41-22) 740.14.35

For more detailed instructions, see the notes on the accompanying sheet.

2. ☐ The applicant is hereby notified that no International Search Report will be established and that the declaration under Article 17(2)(a) to that effect is transmitted herewith.

3. ☐ **With regard to the protest** against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:

☐ the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.

☐ no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.

4. **Further action(s):** The applicant is reminded of the following:

Shortly after **18 months** from the priority date, the international application will be published by the International Bureau.

If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90bis.1 and 90bis.3, respectively, before the completion of the technical preparations for international publication.

Within **19 months** from the priority date, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later).

Within **20 months** from the priority date, the applicant must perform the prescribed acts for entry into the national phase before all designated Offices which have not been elected in the demand or in a later election within 19 months from the priority date or could not be elected because they are not bound by Chapter II.

Name and mailing address of the International Searching Authority



European Patent Office, P.B. 5818 Patentlaan 2
NL-2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Elisabeth Vonk

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 55178-012	FOR FURTHER ACTION see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.	
International application No. PCT/US 00/ 19728	International filing date (day/month/year) 20/07/2000	(Earliest) Priority Date (day/month/year) 20/07/1999
Applicant ZADORA TIMEPIECES, LLC et al.		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 6 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

- a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international search was carried out on the basis of the sequence listing :

☐ contained in the international application in written form.

☐ filed together with the international application in computer readable form.

☐ furnished subsequently to this Authority in written form.

☐ furnished subsequently to this Authority in computer readable form.

☐ the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.

☐ the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished

2. ☐ **Certain claims were found unsearchable** (See Box I).

3. ☒ **Unity of invention is lacking** (see Box II).

4. With regard to the **title**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

☐ the text is approved as submitted by the applicant.

☒ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the **drawings** to be published with the abstract is Figure No.

☐ as suggested by the applicant.

☒ because the applicant failed to suggest a figure.

☐ because this figure better characterizes the invention.

2
☐ None of the figures.

NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions, respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only.

What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been/is filed, see below.

How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

1. [Where originally there were 48 claims and after amendment of some claims there are 51]:
"Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers; claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
2. [Where originally there were 15 claims and after amendment of all claims there are 11]:
"Claims 1 to 15 replaced by amended claims 1 to 11."
3. [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:
"Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or
"Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
4. [Where various kinds of amendments are made]:
"Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

"Statement under article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the language in which the international application is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments and any accompanying statement, under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the time of filing the amendments (and any statement) with the International Bureau, also file with the International Preliminary Examining Authority a copy of such amendments (and of any statement) and, where required, a translation of such amendments for the procedure before that Authority (see Rules 55.3(a) and 62.2, first sentence). For further information, see the Notes to the demand form (PCT/IPEA/401).

Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's Guide.

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US 00/19728

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☒ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☒ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. Claims: 1-7

Time display comprising rotating cylindrical or conical bands for indicating time.

2. Claims: 8-19

Timepiece having a visible surface and a mounting mechanism on said surface for removably attaching an object.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US 00/19728

Box III TEXT OF THE ABSTRACT (Continuation of item 5 of the first sheet)

A timepiece, such as a watch, has a plurality of concentric rotating bands (200,210), viewable from both above and from the side so that a viewer may read the time without changing the orientation of the timepiece. The timepiece has an attachment mechanism that permits the removable attachment of objects, such as sculptures or other ornamental pieces (130) to the surface of the timepiece.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. Claims: 1-7

Time display comprising rotating cylindrical or conical bands for indicating time.

2. Claims: 8-19

Timepiece having a visible surface and a mounting mechanism on said surface for removably attaching an object.

INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 00/19728

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 G04B19/21 G04B47/04 G04B45/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G04B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, INSPEC

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2 444 392 A (WILLENS) 29 June 1948 (1948-06-29) the whole document ---	1-3,5,6
X	CH 666 979 A (SPADINI) 15 September 1988 (1988-09-15) page 3, right-hand column, line 12 - line 54; figure ---	1,2,4,5, 7
X	DE 89 13 993 U (HSU) 8 February 1990 (1990-02-08) page 4, line 12 -page 5, line 25; figures 1,2 ---	1,4
A	US 4 525 077 A (KETNER EUGENE N) 25 June 1985 (1985-06-25) column 3, line 26 - line 51; figure 1 --- -/--	1,5,6

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- * & * document member of the same patent family

Date of the actual completion of the international search

7 February 2001

Date of mailing of the international search report

16. 02. 2001

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Pineau, A

INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 00/19728

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 654 717 A (EBAUCHESFABRIK ETA AG) 24 May 1995 (1995-05-24) column 3, line 43 -column 4, line 2; figures ---	8,9, 17-19
X	US 4 817 064 A (MILLES VICTOR A) 28 March 1989 (1989-03-28) abstract; figure 1 ---	8,17-19
A	US 4 393 558 A (HERWEGH KARL J ET AL) 19 July 1983 (1983-07-19) abstract; figures -----	9-12,14, 15

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US 00/19728

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2444392 A	29-06-1948	NONE	
CH 666979 A	15-09-1988	NONE	
DE 8913993 U	08-02-1990	NONE	
US 4525077 A	25-06-1985	US 4473304 A	25-09-1984
EP 0654717 A	24-05-1995	CN 1114755 A,B	10-01-1996
		DE 69403612 D	10-07-1997
		DE 69403612 T	08-01-1998
		JP 7198869 A	01-08-1995
		US 6092923 A	25-07-2000
US 4817064 A	28-03-1989	WO 8604696 A	14-08-1986
		EP 0210199 A	04-02-1987
		JP 62501646 T	02-07-1987
US 4393558 A	19-07-1983	DE 3024471 A	28-01-1982

PATENT COOPERATION TREATY

From the
INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

To: DAVID L. STEWART
MCDERMOTT, WILL & EMERY
600 13TH STREET N.W.
WASHINGTON D.C. 20005-3096

PCT

NOTIFICATION OF TRANSMITTAL OF INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Rule 71.1)

Date of Mailing
(day/month/year)

26 DEC 2001

Applicant's or agent's file reference
55178-012

IMPORTANT NOTIFICATION

International application No.
PCT/US00/19728

International filing date (day/month/year)
20 JULY 2000

Priority Date (day/month/year)
20 JULY 1999

Applicant
ZADORA TIMEPIECES, LLC

1. The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international preliminary examination report and its annexes, if any, established on the international application.
2. A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
3. Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translation to those Offices.
4. **REMINDER**

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices)(Article 39(1))(see also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.

Name and mailing address of the IPEA/US
Commissioner of Patents and Trademarks
Box PCT
Washington, D.C. 20231

Facsimile No. (703) 305-3230

Authorized officer
V. W. Miska

Telephone No. (703) 308-3096

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 55178-012	FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)	
International application No. PCT/US00/19728	International filing date (day/month/year) 20 JULY 2000	Priority date (day/month/year) 20 JULY 1999
International Patent Classification (IPC) or national classification and IPC IPC(7): G04B 19/00 ; G04C 21/00 and US Cl.: 368/76, 223		
Applicant ZADORA TIMEPIECES, LLC		

<ol style="list-style-type: none"> 1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36. 2. This REPORT consists of a total of <u>4</u> sheets. <input checked="" type="checkbox"/> This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority. (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT). These annexes consist of a total of <u>2</u> sheets. 3. This report contains indications relating to the following items: <table style="margin-left: 20px; border: none;"> <tr> <td style="padding-right: 10px;">I</td> <td><input checked="" type="checkbox"/> Basis of the report</td> </tr> <tr> <td>II</td> <td><input type="checkbox"/> Priority</td> </tr> <tr> <td>III</td> <td><input type="checkbox"/> Non-establishment of report with regard to novelty, inventive step or industrial applicability</td> </tr> <tr> <td>IV</td> <td><input type="checkbox"/> Lack of unity of invention</td> </tr> <tr> <td>V</td> <td><input checked="" type="checkbox"/> Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement</td> </tr> <tr> <td>VI</td> <td><input type="checkbox"/> Certain documents cited</td> </tr> <tr> <td>VII</td> <td><input type="checkbox"/> Certain defects in the international application</td> </tr> <tr> <td>VIII</td> <td><input type="checkbox"/> Certain observations on the international application</td> </tr> </table> 	I	<input checked="" type="checkbox"/> Basis of the report	II	<input type="checkbox"/> Priority	III	<input type="checkbox"/> Non-establishment of report with regard to novelty, inventive step or industrial applicability	IV	<input type="checkbox"/> Lack of unity of invention	V	<input checked="" type="checkbox"/> Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement	VI	<input type="checkbox"/> Certain documents cited	VII	<input type="checkbox"/> Certain defects in the international application	VIII	<input type="checkbox"/> Certain observations on the international application
I	<input checked="" type="checkbox"/> Basis of the report															
II	<input type="checkbox"/> Priority															
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VI	<input type="checkbox"/> Certain documents cited															
VII	<input type="checkbox"/> Certain defects in the international application															
VIII	<input type="checkbox"/> Certain observations on the international application															

Date of submission of the demand 28 DECEMBER 2001	Date of completion of this report 05 NOVEMBER 2001
Name and mailing address of the IPEA/US Commissioner of Patents and Trademarks Box PCT Washington, D.C. 20231	Authorized officer V.W. Miska
Facsimile No. (703) 305-3230	Telephone No. (703) 308-3096 Deborah Perry-Leeper Paralegal Specialist

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/US00/19728

I. Basis of the report

1. With regard to the elements of the international application:*

☐ the international application as originally filed☒ the description:

pages (See Attached) _____, as originally filed

pages _____, filed with the demand

pages _____, filed with the letter of _____

☒ the claims:

pages (See Attached) _____, as originally filed

pages _____, as amended (together with any statement) under Article 19

pages _____, filed with the demand

pages _____, filed with the letter of _____

☒ the drawings:

pages (See Attached) _____, as originally filed

pages _____, filed with the demand

pages _____, filed with the letter of _____

☒ the sequence listing part of the description:

pages (See Attached) _____, as originally filed

pages _____, filed with the demand

pages _____, filed with the letter of _____

2. With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.

These elements were available or furnished to this Authority in the following language _____ which is:

☐ the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).☐ the language of publication of the international application (under Rule 48.3(b)).☐ the language of the translation furnished for the purposes of international preliminary examination (under Rules 55.2 and/or 55.3).

3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

☐ contained in the international application in printed form.☐ filed together with the international application in computer readable form.☐ furnished subsequently to this Authority in written form.☐ furnished subsequently to this Authority in computer readable form.☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.4. ☒ The amendments have resulted in the cancellation of:☒ the description, pages NONE☒ the claims, Nos. NONE☒ the drawings, sheets/fig NONE5. ☐ This report has been drawn as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**

* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17).

**Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/US00/19728

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**1. statement**

Novelty (N)	Claims	<u>10, 11, 13-16</u>	YES
	Claims	<u>1-9, 12, 17-19</u>	NO
Inventive Step (IS)	Claims	<u>NONE</u>	YES
	Claims	<u>1-19</u>	NO
Industrial Applicability (IA)	Claims	<u>1-19</u>	YES
	Claims	<u>NONE</u>	NO

2. citations and explanations (Rule 70.7)

Claims 1-9, 12 and 17-19 lack novelty under PCT Article 33(2) as being anticipated by anticipated by the U.S. Patent to Chaut. The reference discloses timepiece 10 having concentric time indicating rotating bands 12-14 of various shapes, removable object 15 attached to the timepiece by means of stud 26.

The timepiece may be "wearable" in a broad sense, as the claims fail to specify any means for rendering the device wearable.

Claims 10, 11 and 13-16 lack an inventive step under PCT Article 33(3) as being obvious over Chaut. Use of a spring with a slot and hole to attach an object to a mounting surface via a stud is well known from various other fields, for example attaching components for rotation about a shaft or stud, in automobile components, toy accessories etc. One skilled in the art would be familiar with such techniques to removably mount object 15 to surface 14.

Claims 1-19 meet the criteria set out in PCT Article 33(4), because the device can be used in industry.

----- NEW CITATIONS -----

US 4,858,209 A (CHAUT) 15 August 1989 (15.08.1989), entire patent.

US 5,412,625 A (DUCHEK) 02 May 1995 (02.05.1995), entire patent.

US 5,640,372 A (THACKARA) 17 June 1997 (17.06.1997), entire patent.

US 4,939,913 A (SCUNGIO et al) 10 July 1990 (10.07.1990), entire patent.

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/US00/19728

Supplemental Box

(To be used when the space in any of the preceding boxes is not sufficient)

Continuation of: Boxes I - VIII

Sheet 10

I. BASIS OF REPORT:

This report has been drawn on the basis of the description,
page(s) 1-4, as originally filed.
page(s) NONE, filed with the demand.
and additional amendments:
NONE

This report has been drawn on the basis of the claims,
page(s) NONE, as originally filed.
page(s) NONE, as amended under Article 19.
page(s) NONE, filed with the demand.
and additional amendments:
Pages 5-6 filed with the letter of 02 July 2001.

This report has been drawn on the basis of the drawings,
page(s) 1-6, as originally filed.
page(s) NONE, filed with the demand.
and additional amendments:
NONE

This report has been drawn on the basis of the sequence listing part of the description:
page(s) NONE, as originally filed.
pages(s) NONE, filed with the demand.
and additional amendments:
NONE

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



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(10) International Publication Number
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- (51) International Patent Classification⁷: Not classified
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- (22) International Filing Date: 20 July 2000 (20.07.2000)
- (25) Filing Language: English
- (26) Publication Language: English
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60/144,870 20 July 1999 (20.07.1999) US
- (71) Applicant (*for all designated States except US*):
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- (72) Inventors; and
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- (74) Agents: STEWART, David, L. et al.; McDermott, Will & Emery, 600 13th Street, N.W., Washington, DC 20005-3096 (US).
- (81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.
- (84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).
- Published:
— Without international search report and to be republished upon receipt of that report.
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

(54) Title: A WATCH WITH ROTATING CONICAL BANDS AND WITH REMOVABLE OBJECTS

(57) Abstract: A timepiece, such as a watch, has a plurality of concentric rotating bands, viewable from both above and from the side so that a viewer may read the time without changing the orientation of the timepiece. The timepiece has an attachment mechanism that permits the removable attachment of objects, such as sculptures or other ornamental pieces to the surface of the timepiece.

WO 01/05209 A2

A WATCH WITH ROTATING CONICAL BANDS AND WITH REMOVABLE OBJECTS

CROSS REFERENCE TO RELATED APPLICATIONS

This application claims priority to U.S. Provisional Application Serial No. 60/144,870 filed July 20, 1999, the contents of which are herein incorporated by reference in their entirety.

BACKGROUND OF THE INVENTION

Field of the Invention

The invention is directed to timepieces, and, more particularly, to timepieces having rotating conical bands which indicate the time and having removable objects, such as a sculpture or other artwork, on the timepiece.

Description of Related Art

Timepieces are well known in the art as are timepieces which can be worn by an individual. Wrist watches, pocket watches, broaches or pendant watches are also known. However, the display of time is typically done using at least hour and minute hands which point, respectively, to the hour of the day and the minute within the hour. Alternatively, digital timepieces are known which display at least hour and minute as numerals, using, for example liquid crystal displays, rather than as pointers to an angular reference to hour and minute.

Existing timepieces have the limitation that they require that the plane of the timepiece face be aligned to be substantially perpendicular with the line of sight of the wearer. In the case of wearable timepieces, this requires that the wearer take some affirmative action to determine the time, such as rotating the wrist so that the orientation of the timepiece face is suitable for reading. This has a disadvantage that a person, with whom one might be meeting, could perceive such an action as impatience or as boredom with the subject of the meeting.

Another problem with the prior art is that the appearance of the watch remains substantially unchanged. This creates some difficulty in fashion coordination, where a user might desire to change the appearance of a timepiece so as to coordinate with a different outfit.

SUMMARY OF THE INVENTION

The problems associated with the prior art are overcome, in accordance with one aspect of the invention, by providing a watch, the time indication of which is represented by rotating bands which can be viewed from both the top and the side to obtain an indication of time.

In accordance with another aspect of the invention, a fixed or rotating platform exists on the top of the timepiece, normally called the bezel, which will support an object, such as any type of sculpture or other aesthetically appealing rendering. Such objects would be removable to permit the sculpture or other rendering to be swapped out with different sculptures or renderings.

The foregoing and other features, aspects and advantages of the present invention will become more apparent from the following detailed description of the present invention when taken in conjunction with the accompanying drawings.

BRIEF DESCRIPTION OF THE DRAWINGS

Figure 1 shows a top view of an exemplary timepiece in accordance with the invention.

Figure 2 is a side view of an exemplary timepiece in accordance with the invention.

Figure 3 is a section view of a timepiece along section lines 3--3 of Figure 1.

Figures 4A, 4B and 4C show top, side and bottom views of drive cylinders used in accordance with one aspect of the invention.

Figure 5 is an illustration of a shaft to which the cylinders of Figure 4 might be mounted for operation.

Figure 6 is an exemplary implementation of a wishbone spring, typically secured to an object that is to be mounted to the timepiece.

Figure 7 is a perspective view of an exemplary stud which can be mounted to a timepiece and which mates with the spring of Figure 6 to hold an object in place.

DETAILED DESCRIPTION OF THE INVENTION

Figure 1 shows a view of an exemplary timepiece, namely a watch, in accordance with the invention. Watch 100 has a watchband 110 and a fixed time indicator 120. A section 3-3 along the centerline of the watch is shown more in detail in Figure 3. Watch 100 has an object 130 removably attached thereto as described more hereinafter.

Figure 2 is a side view of exemplary watch 100. An object, in this example an ornamental sculpture 130, is removably mounted on the top of the watch. In the illustrated embodiment, the watch has two concentric conical time display bands or rings which rotate about the center of the watch. The bottom one 200, in this example, shows the hour as a location under time indicator 120. The top one 210 shows the minutes. Other bands or rings could be implemented as well. A watch base 230 serves as a mechanical base for the timepiece and permits the connection 240 of a watchband 110.

Figure 3 is a section view of watch 100 along section lines 3-3 in Figure 1. A watch base 230 and platform 320 are mounted together by connection to shaft 220. In this example, the shaft can be

press fit or snap fit into the base and into the platform although other techniques for attachment could be used as well. The platform 320 serves as a mounting base for an object such as an ornament or sculpture. The conical time display band or rings 200 and 210 mount to cylinders 310 and 300 respectively, shown in more detail in Figure 4. One exemplary technique for mounting includes soldering or welding the time display rings to the cylinders. Other techniques may be used as well. Cylinders 300 and 310 are mounted to the shaft 220 concentrically, so as to permit independent rotation, and cylinder 300 fits within cylinder 310. Motor mechanism 330 is coupled to a gear arrangement at the bottom of each cylinder 300 and 310 by one or more gear trains, indicated as dashed lines. A battery 340 may be conveniently mounted to the watch base. The gear train could, of course, be driven by a mechanical drive mechanism of the type used in timepieces for hundreds of years, rather than by an electrical motor.

Figures 4A, 4B and 4C show exemplary cylinders 300 and 310. A gear or gear teeth are mounted to or formed in the bottom of the cylinder. These engage the gear arrangement driven by the motor. In the implementation of cylinder 300, a notch 410 is provided into which a split C ring may be fitted to keep cylinder 310 from sliding down and interfering with the engagement of the cylinder 300 with the gear arrangement of cylinder 300 driven by the motor.

Figure 5 is an illustration of shaft 220. It too has a notch (500) provided into which a split C ring may be fitted to keep cylinder 300 from sliding down and engaging the watch base which might interfere with the rotation of the cylinder.

The preferred technique for mounting an object to platform 320 is shown in Figures 6 and 7. There are two basic parts to this system, a wishbone shaped spring (Figure 6) and a stud (Figure 7). In general the spring is secured to the piece that it is to be attached to the watch and the stud is secured to platform 320, preferably at the top and center of the watch.

The wishbone spring 600 is preferably made of spring steel. In an exemplary embodiment, the dimensions of this spring would be approximately 20 mm long, 5 mm wide, and 0.5 mm thick. There is a drilled hole 610 at one end to facilitate a screw for securing to the object to be removably attached. A drilled hole 620 in the middle of the spring, slightly smaller than the pilot diameter of the stud, 710, facilitates easy attachment of the spring mounted object to the stud.

The stud is preferably made of hardened and polished steel. This piece has three distinct features, namely, the base 720 (preferably about 5 mm in diameter), the square 730, and the pilot diameter (each about 2 mm in diameter). The total height from bottom of base to top of the pilot diameter of this part is about 5 mm. The pilot diameter has a tapered end 740 which tapers down from the diameter of pilot diameter to a minor diameter smaller than the size of hole 620 in the wishbone spring.

In this embodiment, it is important that the diameter of the hole 620, in the center of the wishbone spring, be smaller than the diameter of the pilot diameter of the stud. About 25% smaller would be preferable. In this embodiment, it is also important that the apex of the square be the same size as the pilot diameter to facilitate easy removal.

For assembly, a object, such as sculpture 130 is attached to the wishbone spring 600, using, for example, a screw that passes through hole 610 in the spring and into the body of the object.

The wishbone spring is pressed over the tapered (conical) end of the stud and forced open until it opens enough to pass over the pilot diameter until it snaps into place on the square section of the stud. The square section of the stud allows several important advantages. First, the object can be positioned in any 90 degree increment. Second, the object will be easily removed by a simple turn of 45 degrees and lifting away from the watch.

Although the present invention has been described and illustrated in detail, it is clearly understood that the same is by way of illustration and example only and is not to be taken by way of limitation, the spirit and scope of the present invention being limited only by the terms of the appended claims and their equivalents.

WHAT IS CLAIMED IS:

1. A timepiece having one or more concentric rotating bands indicating time increments.
2. The timepiece of claim 1 in which the one or more rotating bands are viewable from both the side and from the top for determining time.
3. The timepiece of claim 1 in which the rotating bands are conical in shape.
4. The timepiece of claim 1 in which the rotating bands are cylindrical in shape.
5. The timepiece of claim 1 in which the rotating bands rotate about a bezel.
6. The timepiece of claim 5 in which the bezel is fixed and the bezel serves as a mounting platform for an object.
7. The timepiece of claim 5 in which the bezel rotates and the bezel serves as a mounting platform for an object.
8. A timepiece having a visible surface and a mounting mechanism on said surface for removably attaching an object.
9. The timepiece of claim 8 in which said mounting mechanism comprises a stud.
10. The timepiece of claim 8 in which said stud is configured to engage a wishbone shaped spring.
11. The timepiece of claim 8 in which said stud comprises a conical portion, a cylindrical portion and a square portion.
12. For use with an object to be mounted on a timepiece, a spring mechanism attached to said object and configured to removably connect to a mounting mechanism attached to said timepiece.
13. The spring mechanism of claim 12 attached to said object with a screw.

14. The spring mechanism of claim 12 in which the spring mechanism comprises an elongated piece of spring steel having a slot running for a portion of its length, the slot forming substantially parallel legs connected at one end and open at the other end.

15. The spring mechanism of claim 14 in which the slot has a hole at a location along its length.

16. The spring mechanism of claim 15 in which said hole has a diameter smaller than a diameter of a mounting mechanism attached to said timepiece to facilitate easy attachment of the object to said mounting mechanism.

17. An object to be mounted on a timepiece, comprising an attachment mechanism configured to removably connected to a mounting mechanism attached to said timepiece.

18. A method of manufacturing a timepiece, comprising the steps of:

- a. providing a timepiece having a mounting mechanism for a removable object; and
- b. providing at least one object having an attachment mechanism for attaching said object to said timepiece.

19. A method of assembling a timepiece, comprising the steps of:

- a. providing a timepiece having a mounting mechanism for a removable object; and
- b. mounting at least one object having an attachment mechanism for attaching said object to said mounting mechanism.

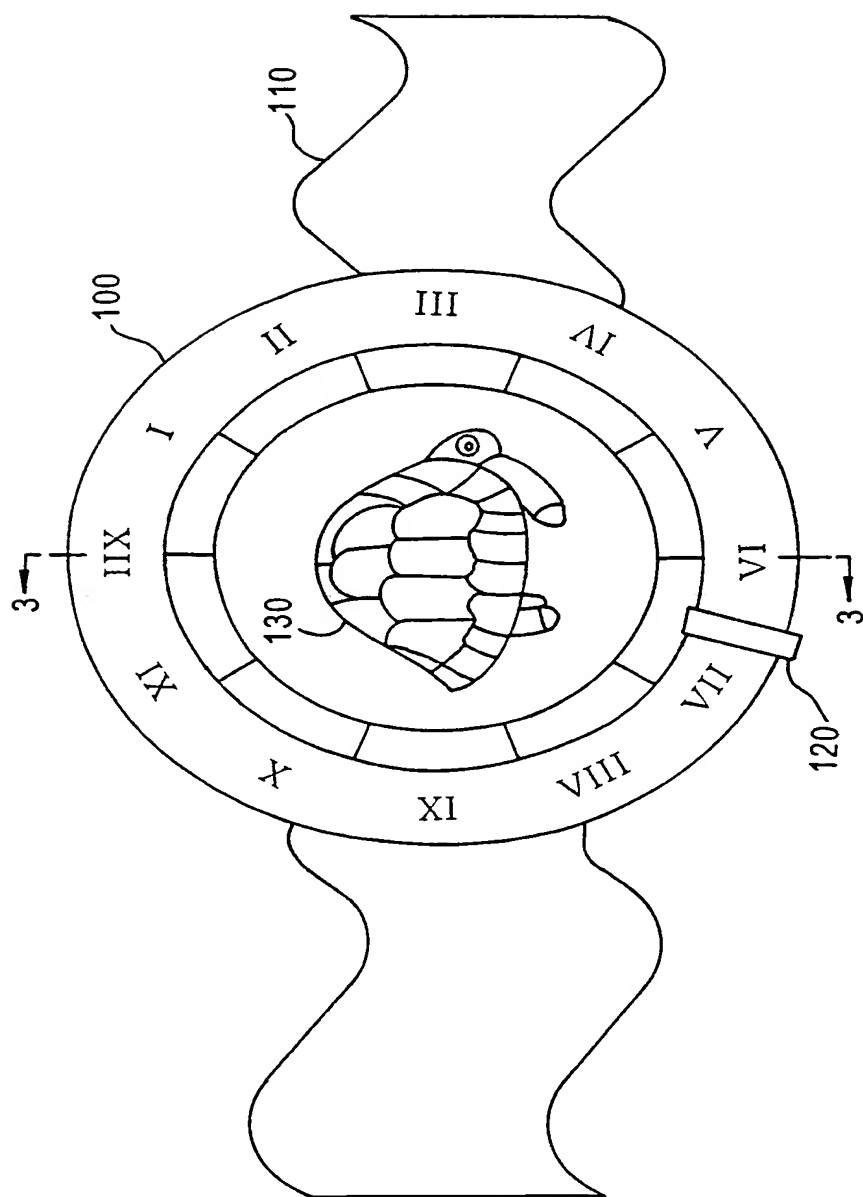


FIG. 1

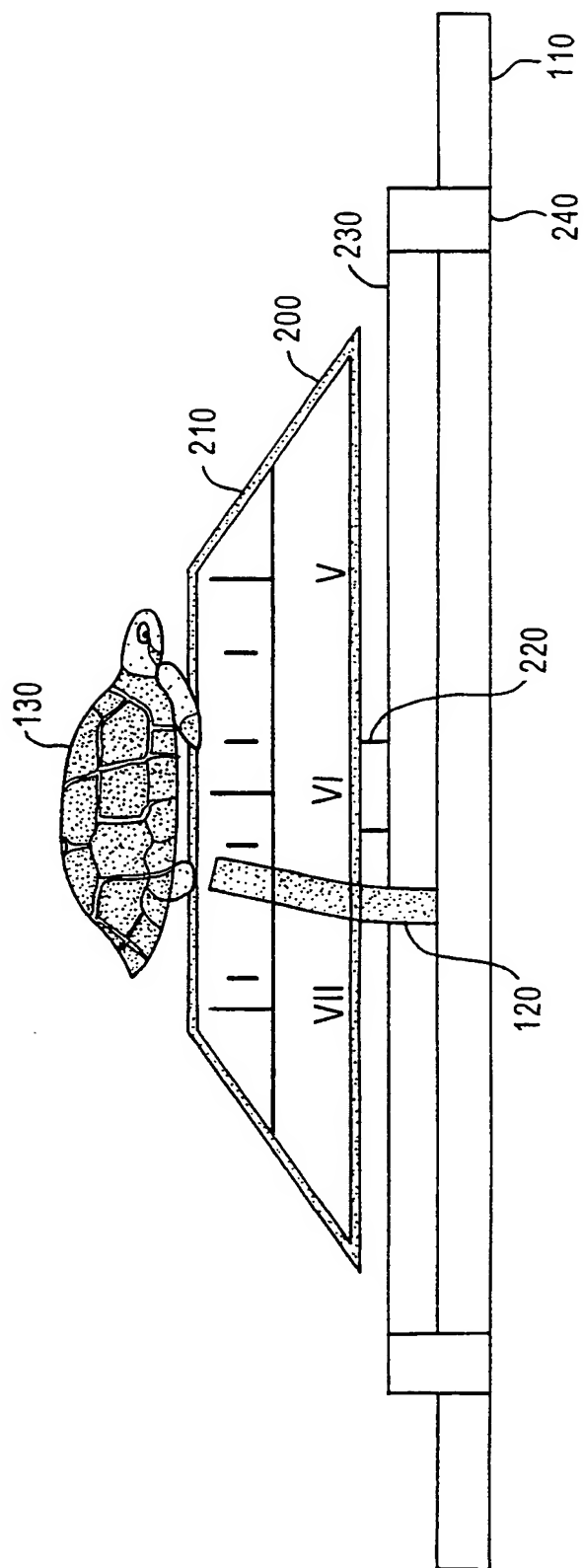


FIG. 2

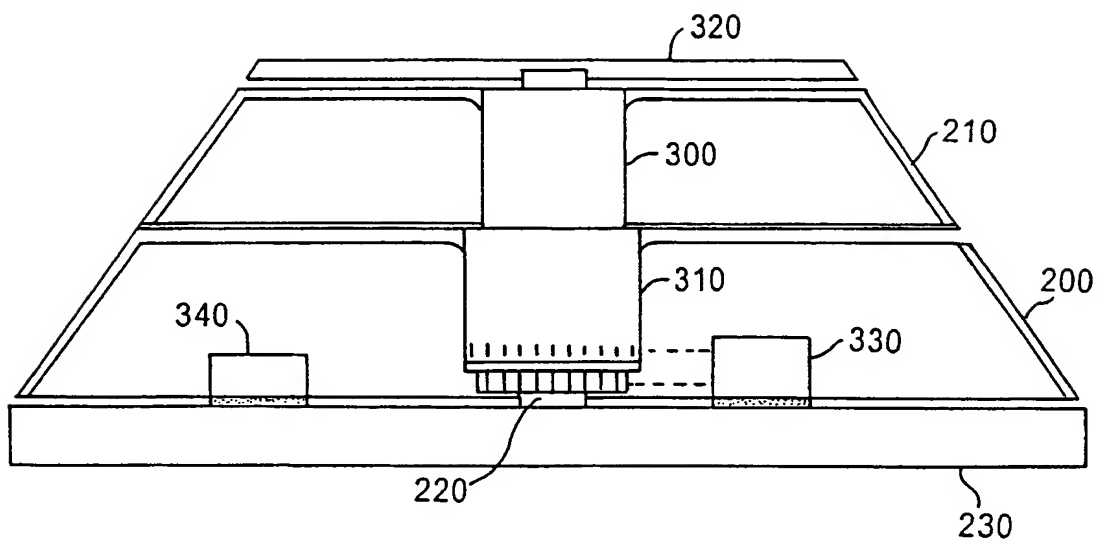


FIG. 3

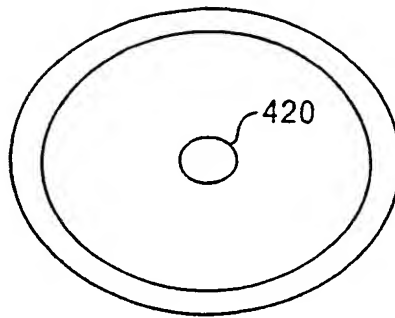


FIG. 4A

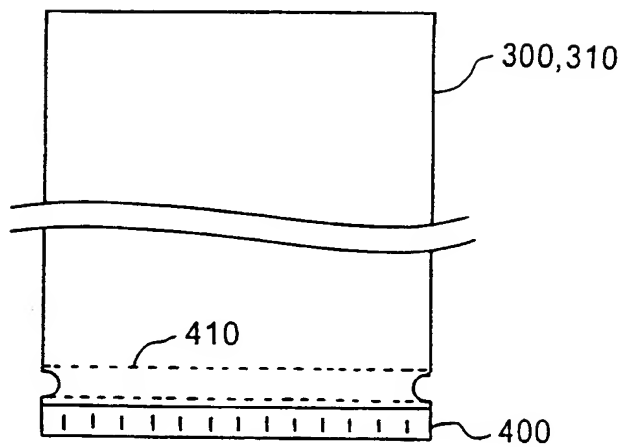


FIG. 4B

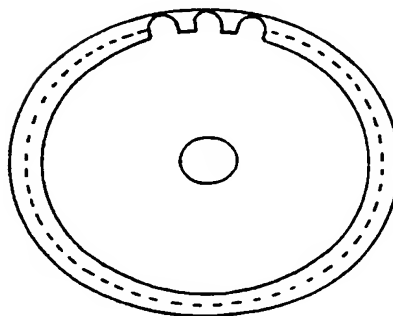


FIG. 4C

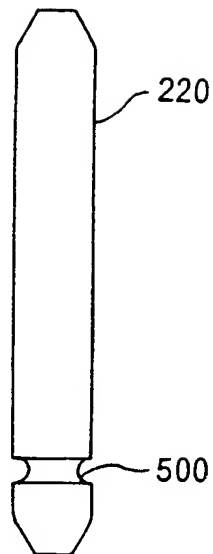


FIG. 5

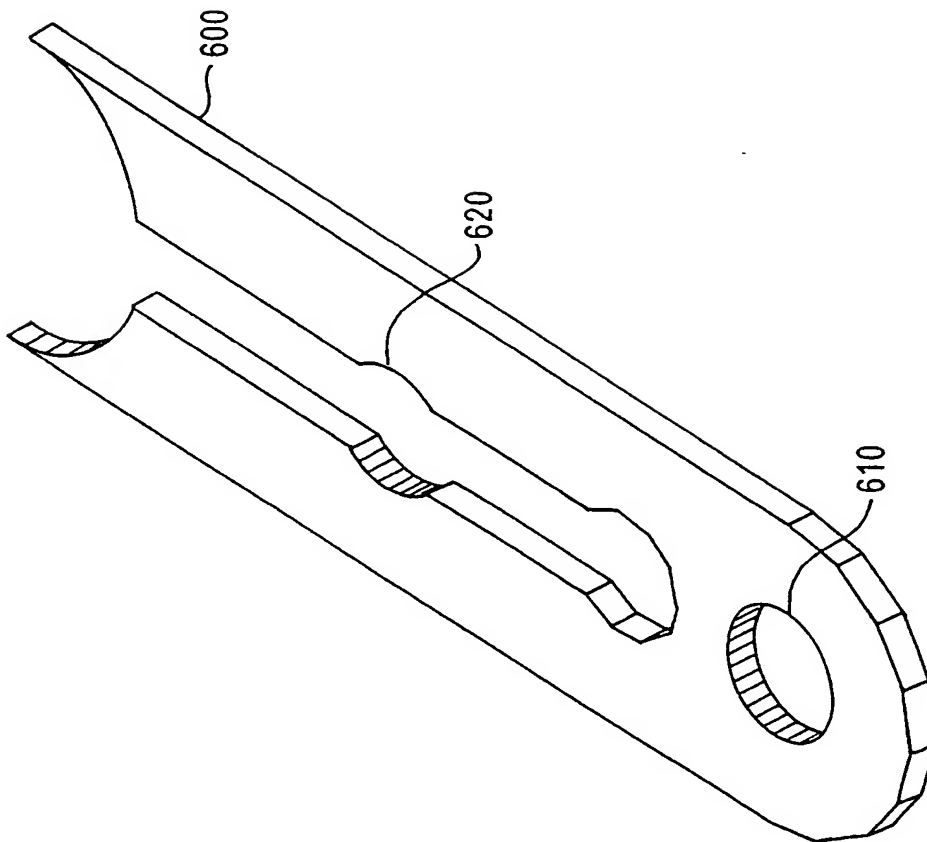


FIG. 6

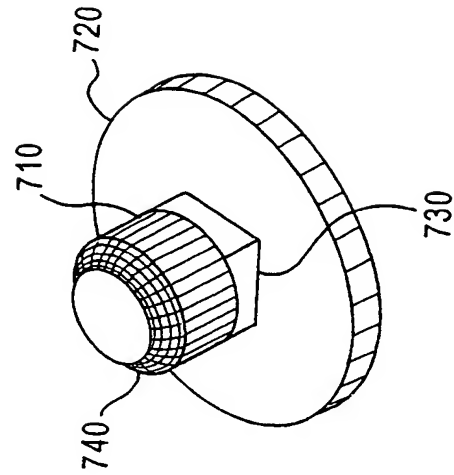


FIG. 7

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

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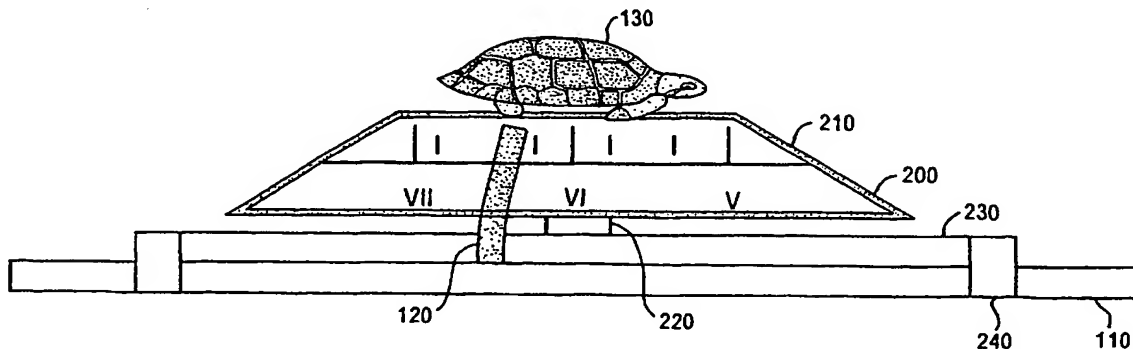
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- (71) Applicant (for all designated States except US):
ZADORA TIMEPIECES, LLC [US/US]; Rockefeller Center, Suite 612, 610 5th Avenue, New York, NY 10020 (US).
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- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).
- Published:
— with international search report
- (88) Date of publication of the international search report:
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- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: A WATCH WITH ROTATING CONICAL BANDS AND WITH REMOVABLE OBJECTS



(57) Abstract: A timepiece, such as a watch, has a plurality of concentric rotating bands (200, 210), viewable from both above and from the side so that a viewer may read the time without changing the orientation of the timepiece. The timepiece has an attachment mechanism that permits the removable attachment of objects, such as sculptures or other ornamental pieces (130) to the surface of the timepiece.

WO 01/05209 A3

INTERNATIONAL SEARCH REPORT

national application No.
PCT/US 00/19728

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☒ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☒ No protest accompanied the payment of additional search fees.